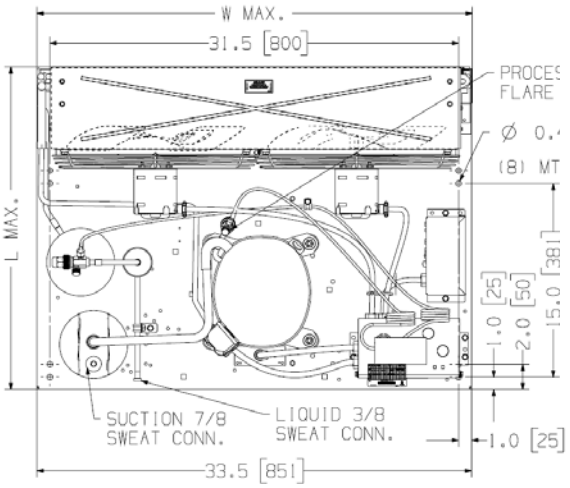
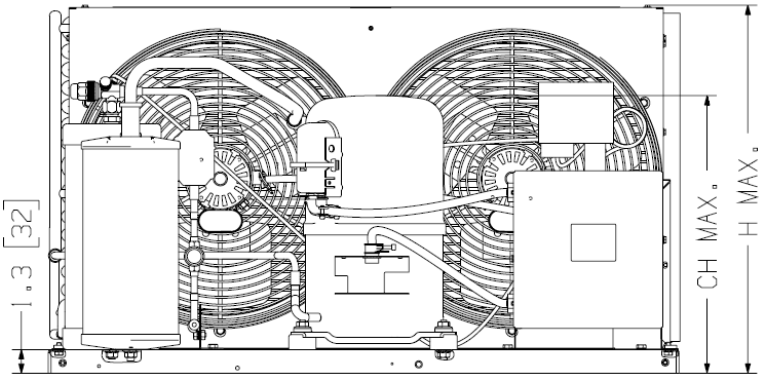
March 29, 2011

Tecumseh Compressor Company
Indoor Condensing Units

Model: AWA9518ZXNXM **BoM: 2T2117-1** **R-404A** **2.25 HP** **AIRCOOLED**





Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AWA9518ZXNXM	25.0	33.5	19.5	14.7	7/8” S	3/8” S	18.14 lbs	1525	38.5	275
* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting										

		Ambient Temperatures											
Evaporator T		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
-10	23.2	10185	2021	90	8659	1970	100	7287	1933	109	5874	1871	119
0	32.8	13115	2269	93	11392	2262	103	9822	2252	112	8221	2223	121
5	37.9	14790	2695	95	12952	2408	104	11255	2410	113	9542	2398	123
10	43.3	16603	2521	96	14642	2553	106	12800	2569	115	10962	2573	124
15	49.1	18556	2648	98	16461	2699	108	14456	2726	116	12480	2747	126
20	55.5	20648	2776	100	18409	2844	109	16224	2883	118	14096	2920	127
30	69.5	25250	3033	104	22694	3135	113	20091	3196	122	17624	3264	130
35	77.2	27760	3163	106	25030	3280	115	22192	3352	124	19536	3435	132
40	85.5	30410	3294	109	27495	3425	117	24403	3507	126	21546	3605	134
45	94.3	33198	3425	111	30090	3570	119	26726	3662	128	23654	3775	136

60 Hz Performance

Return gas temp. 40°F Evaporator Temp. 20°F or less, 5°F sub-cooling
Return gas temp. 65°F for Evaporator Temp. > 20°F, 5°F sub-cooling

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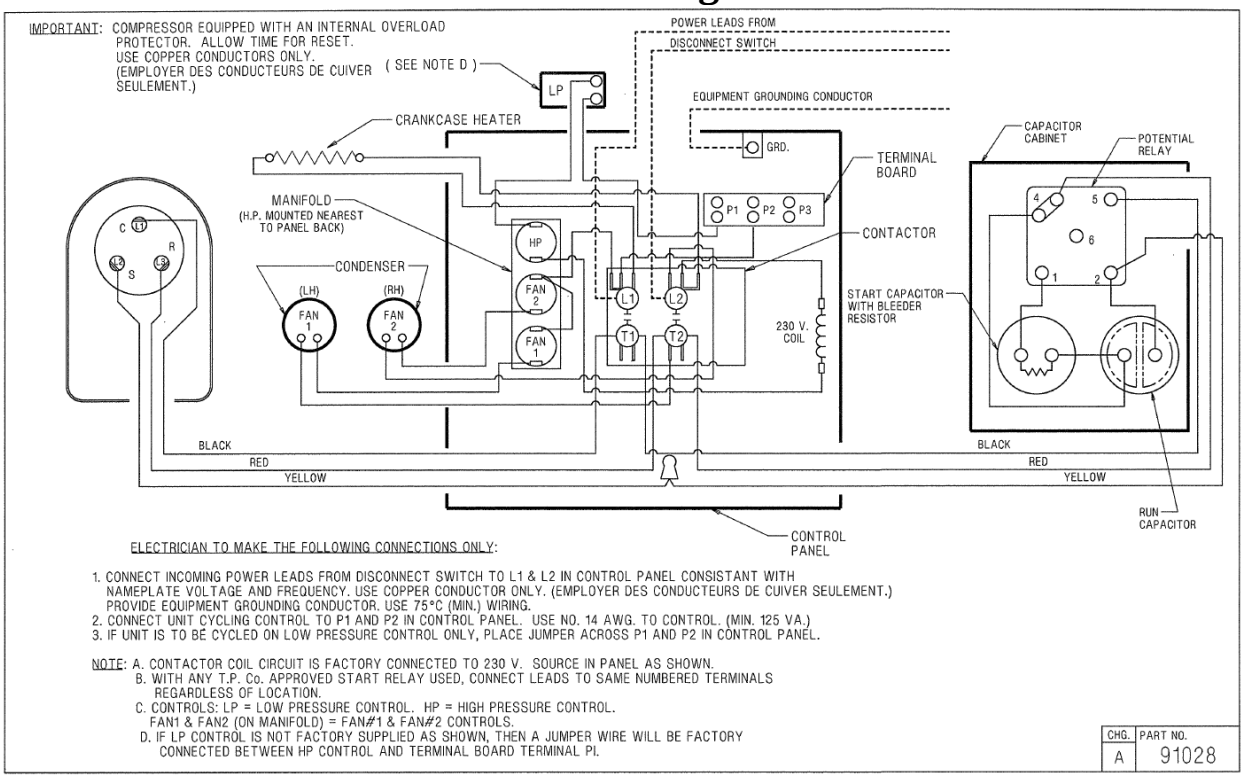
Specifications/ Parts:

Model	AWA9518ZXNXM
Unit Bill of Material	2T2117-1
Nominal Volts-Hz-Ph	208-230-60-1
Refrigeration Range	-10° to 45°F
Design Pressure Low	181
Design Pressure High	450
Voltage Range	187 to 254
Min. Circuit Ampacity	20.0
Max. Fuse Size (amps)	30
Compressor Model	AWA9514ZXN
Comp. Bill of Material	AW617ET-099-P21
Compressor RLA/LRA	14.7 / 90.0
Overload	INTERNAL
Relay	820ARR3J50
Run Capacitor	85PR370F21
Run Capacitor Rating	45MFD 370V(M)VDE
Start Capacitor	85PS330D17
Start Capacitor Rating	145-175 MFD 330V VDE
Contactor	91017
Unit Drawing	DGU1918-57
Wiring Diagram	91028

Fan Motor	810F050C20 (2)
Fan Motor RLA	0.7 Each
Fan Blade	51568-1 (2)
Fan Guard	70831 (2)
Fan Shroud	70648-2
High Pressure Switch	84095-1
Low Pressure Control	84026-2
Oil Separator *	N/A
Condenser	50858
Fan Switch	84096-1
Fan Switch	84096-2
Receiver Tank	51081-1
Liquid Valve	31581-1
Liquid Filter *	70081
Sight Glass *	70084
Suction Valve *	N/A
Rotolock Valve Gasket	N/A
Discharge Valve	N/A
Process Valve	31583-1
Accumulator *	TK00042000
Crankcase Heater	91022-1
Defrost Timer *	N/A
* = Equipped Units Only	
Options for Equipped Units	
Receiver Heater	N/A
Solenoid Valve	N/A

Electrical Diagram


IMPORTANT: COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)
(SEE NOTE D)
POWER LEADS FROM DISCONNECT SWITCH
EQUIPMENT GROUNDING CONDUCTOR
LP
CRANKCASE HEATER
GRD.
TERMINAL BOARD
CAPACITOR CABINET
POTENTIAL RELAY
MANIFOLD (H.P. MOUNTED NEAREST TO PANEL BACK)
P1 P2 P3
CONTACTOR
HP
CONDENSER
(LH)
(RH)
FAN 1
FAN 2
L1
L2
T1
T2
230 V. COIL
START CAPACITOR WITH BLEEDER RESISTOR
C
R
S
BLACK
RED
YELLOW
RUN CAPACITOR
CONTROL PANEL
ELECTRICIAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1 & L2 IN CONTROL PANEL CONSISTANT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTOR ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P1 AND P2 IN CONTROL PANEL. USE NO. 14 AWG. TO CONTROL. (MIN. 125 VA.)
3. IF UNIT IS TO BE CYCLED ON LOW PRESSURE CONTROL ONLY, PLACE JUMPER ACROSS P1 AND P2 IN CONTROL PANEL.
NOTE: A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V. SOURCE IN PANEL AS SHOWN.
B. WITH ANY T.P. Co. APPROVED START RELAY USED, CONNECT LEADS TO SAME NUMBERED TERMINALS REGARDLESS OF LOCATION.
C. CONTROLS: LP = LOW PRESSURE CONTROL. HP = HIGH PRESSURE CONTROL. FAN1 & FAN2 (ON MANIFOLD) = FAN#1 & FAN#2 CONTROLS.
D. IF LP CONTROL IS NOT FACTORY SUPPLIED AS SHOWN, THEN A JUMPER WIRE WILL BE FACTORY CONNECTED BETWEEN HP CONTROL AND TERMINAL BOARD TERMINAL P1.
CHG. A
PART NO. 91028